AASHI

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EDUCATION

VIT Bhopal University	2023 – 2027
B.Tech in Computer Science and Engineering (AI-ML)	*Bhopal, India*
CGPA: 9.27	
St. Xavier's Sr. Sec. School	2023
Class 12th - PERCENT – 94.8	Delhi, India
St. Xavier's Sr. Sec. School	2021
Class 10th - PERCENT – 97.6 (School Topper)	Delhi, India

PROJECTS

Facial Expression Recognition

- Built an AI model achieving over 96% accuracy on the CK+ dataset for emotion detection.
- Used Convolutional Neural Networks and SVM, optimized with the VGG16 architecture. **Tech Stack**: Python, TensorFlow, Keras, OpenCV, Scikit-learn, SVM, VGG16.

ShuttleSense: Badminton Analytics Using AI-ML

- Group project analyzing real-time badminton gameplay using computer vision.
- Trained a custom pose detection model using YOLOv8 for actions like smash, serve, and backhand.

Tech Stack: Python, YOLOv8, OpenCV, Roboflow, PyTorch.

RESEARCH WORK

Facial Expression Recognition Using CNN and SVM

- Co-authored a research paper proposing a hybrid facial expression recognition model that combines VGG16based CNN feature extraction with SVM classification.

- Achieved 97.97% validation accuracy and a 0.98 F1-score on the CK+ dataset across seven emotion classes, outperforming standard deep learning baselines.

- Research selected for publication by Springer following peer review at an international conference.

- Leveraged transfer learning, advanced data augmentation, and class balancing techniques to enhance model generalization across CK+, FER13, and combined datasets.

TECHNICAL SKILLS

Languages: Python, C++, Java, MySQL

Development Tools & Libraries: TensorFlow, Keras, OpenCV, Scikit-learn

CS Fundamentals: Data Structures, Algorithms, OOP, OS, Computer Networks

ACHIEVEMENTS & ACTIVITIES

Hackathons: Secured 3rd place at Solvit Hackathon organised by the Hostel Committee Coding Platforms:

- LeetCode: 68 problems solved
- GeeksforGeeks: 78 problems solved (University Rank: 2504)
- HackerRank: 4 in Python, 3 in C++.